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Atty's 23287

Pat. App. 10/536,608

CLAIM AMENDMENTS

1. (currently amended) A gas-measuring device with noise compensation having a gas sensor [(1)] for generating a measurement signal [(S1)] dependent upon gas concentration and which includes a noise component, characterized in that the gas sensor [(1)] has connected downstream thereof a high-pass filter [(13)] with an adjustable limiting frequency and ~~whereby the limiting frequency is predeterminable by means of a selector~~ an evaluating unit as a function of the noise component.

2. (currently amended) The gas-measuring device according to patent claim 1 characterized in that a low-pass filter [(5)] is provided ~~which is~~ connected between the evaluating unit and the gas sensor [(1)].

3. (currently amended) The gas-measuring device according to patent claim 2, characterized in that a computing unit [(6)] is connected between the evaluating unit and the low-pass filter [(5)] and is provided for calculating [(the)] a pitch [(S')] of the filter output signal [(S5)] arising from the low-pass filter 5.

4. (currently amended) The gas-measuring device according to patent claim 1, characterized in that the ~~selector~~ evaluating unit at its output side is connected with a control